

SW DVI A Series

TWO AND FOUR INPUT DVI SWITCHERS
WITH STEREO AUDIO

- Single link DVI-D and stereo audio switching
- Supports resolutions up to 1920x1200, including HDTV 1080p
- EDID Minder
- Independent input equalization
- Source signal presence indication
- Active Audio Buffering - Converts unbalanced audio signals to balanced line level signals
- Autoswitching capabilities
- RS-232 control
- IR remote control with optional IR 102 handheld IR remote
- Rack-mountable 1U, half rack width metal enclosure
- External international power supply included



SW2 DVI A



SW4 DVI A

The SW DVI A Switcher Series are two and four input Digital Visual Interface switchers used to switch single link DVI-D signals and stereo audio. These switchers are ideal for use anywhere multiple DVI sources need to be switched to one digital display device.



Extron® Electronics

www.extron.com

DESCRIPTION

The **SW2 DVI A** and **SW4 DVI A** are two and four input, one output, single link DVI - Digital Visual Interface switchers that allow multiple DVI input signals to be switched to one compatible display. These switchers are compatible with PC resolutions up to 1920x1200 @ 60 Hz, and also support HDTV 1080p. To enhance and simplify integration, both models feature the EDID Minder that automatically manages the EDID information between the digital display device connected to the output and all the input sources. By maintaining continuous EDID communication with all sources, EDID Minder ensures all DVI sources power up properly and maintain their video outputs whether or not they are actively connected to the digital display device through the switcher's output. Front panel LED signal presence indicators provides a quick means of active signal verification.

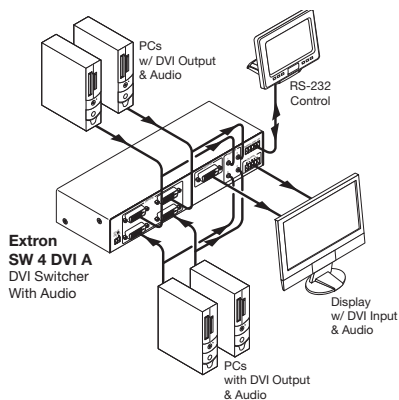
Independent input equalization reduces the need for additional signal conditioning equipment by compensating for signal loss when using long input cable assemblies. Front panel switches allow user-selectable EQ levels. The SW DVI A Series switchers are user-configurable for manual or autoswitching modes. Autoswitching allows any input of the switcher to be selected automatically when the switcher detects a signal.

Convenient control options allow easy integration into a variety of environments. These options include front panel control, IR, RS-232, and autoswitching. To further simplify integration, both SW DVI A switchers are housed in compact, 1U, half rack width enclosures that are easily mounted into optional Extron 1U Universal Rack Shelf Kits.

FEATURES

- Single link DVI-D and stereo audio switching
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APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO

Gain	Unity
Maximum data rate	1.65 GHz
Switching speed	200 ns (max.)
Resolution.....	Up to HDTV (1080p) or 1920x1200 @ 60 Hz

VIDEO INPUT

Number/signal type.....	2 or 4 single link DVI-D digital component video
Connectors	2 or 4 female DVI-D
Nominal levels	
Digital video.....	1.2 Vp-p
DDC (Display Data Channel).....	TTL: 5.0 Vp-p
Minimum/maximum levels	0.5 V to 1.0 Vp-p with no offset
Equalization	Switch selectable for up to -12 dB of cable loss
TDMS clock jitter	0.30 T _{bit} relative to ideal recovery clock
NOTE: T _{bit} = one tenth of the pixel time.	

VIDEO OUTPUT

Number/signal type.....	1 DVI-D digital component video
Connectors	1 female DVI-D
Nominal level	1.2 Vp-p
Minimum/maximum levels	0.5 V to 1.0 Vp-p with no offset (follows input)
TDMS clock jitter	0.25 T _{bit} (max.) relative to ideal recovery clock
NOTE: T _{bit} = one tenth of the pixel time.	

AUDIO

Gain	Unbal. output: 0 dB; bal. output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.01% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Stereo channel separation	>80 dB @ 20 Hz to 20 kHz

AUDIO INPUT

Number/signal type.....	2 or 4 stereo, unbalanced
Connectors	(2 or 4) 3.5 mm mini audio jacks
Impedance	>10k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level.....	+16 dBu, unbalanced at 1% THD+N

AUDIO OUTPUT

Number/signal type.....	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Maximum level (Hi-Z)	>+28 dBu, bal.; > 20 dBV, unbal. at 1% THD+N
Maximum level (600 ohm)	>+21 dBm, bal.; >18 dBm, unbal. at 1% THD+N

CONTROL/REMOTE — SWITCHER

Serial control port	(1) RS-232, 3.5 mm captive screw connector, 5 pole (shared with autoswitching control)
Contact closure.....	(1) 3.5 mm captive screw connector, 5 pole
IR controller module	IR 102 remote control (70-224-10, optional)
Program control	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A, regulated
Power input requirements.....	12 VDC, 0.7 A
Rack mount	Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129). Also furniture mountable with optional Under Desk Mounting Kit, #70-077-01 (MBU 125); or Through Desk Mounting Kit, #70-077-02 (MBD 129).
Enclosure dimensions	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 7.6 cm D
Product/shipping weight	0.6 lbs (0.3 kg) / 2 lbs (1 kg)
Listings	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
Warranty	3 years parts and labor
NOTE: All nominal levels are at ±10%.	

Model	Version Description	Part Number
SW 2 DVI A	Two Input DVI Switcher with Stereo Audio.....	60-840-01
SW 4 DVI A	Four Input DVI Switcher with Stereo Audio	60-840-02

Optional Accessories

IR 102 Remote Control Replacement IR Remote.....	70-224-10
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Specifications are subject to change without notice.



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